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Gly Ser Tyr Lys Lys Ile Gly Tyr Tyr Asp Ser Thr Lys Asp Asp Leu 545 550 555 560

Ser Trp Ser Lys Thr Asp Lys Trp Ile Gly Gly Ser Pro Pro Ala Asp 565 570 575

Gln Thr Leu Val Ile Lys Thr Phe Arg Phe Leu Ser Gln Lys Leu Phe 580 585 590

Ile Ser Val Ser Val Leu Ser Ser Leu Gly Ile Val Leu Ala Val Val 595 600 605

Cys Leu Ser Phe Asn Ile Tyr Asn Ser His Val Arg Tyr Ile Gln Asn 610 620

Ser Gln Pro Asn Leu Asn Asn Leu Thr Ala Val Gly Cys Ser Leu Ala 625 630 635 640

Leu Ala Ala Val Phe Pro Leu Gly Leu Asp Gly Tyr His Ile Gly Arg 645 650 655

Asn Gln Phe Pro Phe Val Cys Gln Ala Arg Leu Trp Leu Leu Gly Leu 660 665 670

Gly Phe Ser Leu Gly Tyr Gly Ser Met Phe Thr Lys Ile Trp Trp Val 675 . 680 685

His Thr Val Phe Thr Lys Lys Glu Glu Lys Lys Glu Trp Arg Lys Thr 690 695 700

Leu Glu Pro Trp Lys Leu Tyr Ala Thr Val Gly Leu Leu Val Gly Met

Asp Val Leu Thr Leu Ala Ile Trp Gln Ile Val Asp Pro Leu His Arg 725 730 735

Thr Ile Glu Thr Phe Ala Lys Glu Glu Pro Lys Glu Asp Ile Asp Val

Ser Ile Leu Pro Gln Leu Glu His Cys Ser Ser Arg Lys Met Asn Thr 755 760 765

Trp Leu Gly Ile Phe Tyr Gly Tyr Lys Gly Leu Leu Leu Leu Gly
770 775 780

Ile Phe Leu Ala Tyr Glu Thr Lys Ser Val Ser Thr Glu Lys Ile Asn 785 790 795 800

Asp His Arg Ala Val Gly Met Ala Ile Tyr Asn Val Ala Val Leu Cys 805 810 815

Leu Ile Thr Ala Pro Val Thr Met Ile Leu Ser Ser Gln Gln Asp Ala 820 825 830

Ala Phe Ala Phe Ala Ser Leu Ala Ile Val Phe Ser Ser Tyr Ile Thr 835 840 845

Leu Val Val Leu Phe Val Pro Lys Met Arg Arg Leu Ile Thr Arg Gly 850 850

Glu Trp Gln Ser Glu Ala Gln Asp Thr Met Lys Thr Gly Ser Ser Thr 865 870 875 880

Asn Asn Asn Glu Glu Lys Ser Arg Leu Leu Glu Lys Glu Asn Arg 885 890 895

Glu Leu Glu Lys Ile Ile Ala Glu Lys Glu Glu Arg Val Ser Glu Leu 900 905 910

Arg His Gln Leu Gln Ser Arg Gln Gln Leu Arg Ser Arg Arg His Pro 915 920 925

Pro Thr Pro Pro Glu Pro Ser Gly Gly Leu Pro Arg Gly Pro Pro Glu 930 935 940

Lys																	
<210> <211> <212> <213> <220> <221>	DI Ho	823 NA	sapi	.ens													,
<222> <223>		1)	(282	23)													
<400> atg go Met A	ct 1															4.	В
cca co Pro P																9	5
ctg co Leu P	ro :															14	4
ecg co Pro Pr 5	ro		_	_	_	_				_			_	-		19	2
acc ac Thr Ly																24	0
gtg g																28	
tac to	he :	Leu	Asp 100	Leu	Arg	Leu	Tyr	Asp 105	Thr	Glu	Cys	Asp	Asn 110	Ala	Lys	33	6
ggg t	eu :															38	4
												_					_

atg gtg ttt gga ggc gtc tgt cca tcc gtc aca tcc atc att gca gag

Met Val Phe Gly Gly Val Cys Pro Ser Val Thr Ser Ile Ile Ala Glu

Pro Pro Asp Arg Leu Ser Cys Asp Gly Ser Arg Val His Leu Leu Tyr

			,								
					cag Gln				480		
					tac Tyr				528		
					gcc Ala 185				576		
					ctg Leu				624		
					gga Gly				672		
					tcc Ser			Ser	720		
					cgg Arg				768		
					tgt Cys 265				816		
					att Ile				864		
					gcc Ala				912		
					ggc Gly				960		
					acc Thr				1008	•	
					aag Lys 345				1056		
					ggc Gly				1104		

					gag Glu											1152
	_	_			tac Tyr 390	_	_									1200
					acc Thr											1248
					aga Arg	-										1296
-					aag Lys											1344
_					gac Asp								_			1392
	_	_			atc Ile 470	_		_	_		_					1440
		_			tct Ser	_						_		_	-	1488
_	_				ttc Phe			_				_	_			1536
			_		tac Tyr	_									_	1584
					ata Ile											1632
					gaa Glu 550											1680
				_	acc Thr	_			_	_		-	_			1728
					ttc Phe											1776
aag	gac	cag	aaa	ctg	ctt	gtg	atc	gtg	999	ggc	atg	ctg	ctg	atc	gac	1824

Lys	Asp	Gln 595	Lys	Leu	Leu	Val	Ile 600	Val	Gly	Gly	Met	Leu 605	Leu	Ile	Asp	
	-												cga Arg			1872
		_			-		_	_		_			gat Asp			1920
	-				-		-	-				_	acc Thr			1968
			_		-		_				_	_	ttc Phe 670		-	2016
													ctc Leu			.2064
_	_				_	_	_						atg Met	_		2112
		_	-	-			_			-	_		aat Asn		-	2160
													atc Ile			2208
_	_	_			_	_				_	_		aac Asn 750		_	2256
													cag Gln			2304
													caa Gln			2352
													ctg Leu			2400
													atg Met			2448
													cac His			2496

820	825	830

gag .Glu						_						agc Ser		_	2544
		_	_						_			ccc Pro			2592
_							_				_	cct Pro		_	2640
_				_			_	~		_		ctc Leu	_		2688
				-								gtg Val 910	_	_	2736
-	_	_	_	_	_	_			_	-		cgc Arg		_	2784
					_	_	atg Met	_	_						2823

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<211> 941

<212> PRT

<213> Homo sapiens

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Met Ala Ser Pro Arg Ser Ser Gly Gln Pro Gly Pro Pro Pro Pro Pro 1 5 10 15

Pro Pro Pro Pro Ala Arg Leu Leu Leu Leu Leu Leu Leu Pro Leu Leu Leu 20 25 30

Leu Pro Leu Ala Pro Gly Ala Trp Gly Trp Ala Arg Gly Ala Pro Arg
35 40 45

Pro Pro Pro Ser Ser Pro Pro Leu Ser Ile Met Gly Leu Met Pro Leu 50 55 60

Thr Lys Glu Val Ala Lys Gly Ser Ile Gly Arg Gly Val Leu Pro Ala 65 70 75 80

- Val Glu Leu Ala Ile Glu Gln Ile Arg Asn Glu Ser Leu Leu Arg Pro 85 90 95
- Tyr Phe Leu Asp Leu Arg Leu Tyr Asp Thr Glu Cys Asp Asn Ala Lys
 100 . 105 110
- Gly Leu Lys Ala Phe Tyr Asp Ala Ile Lys Tyr Gly Pro Asn His Leu 115 120 125
- Met Val Phe Gly Gly Val Cys Pro Ser Val Thr Ser Ile Ile Ala Glu 130 135 140
- Ser Leu Gln Gly Trp Asn Leu Val Gln Leu Ser Phe Ala Ala Thr Thr 145 150 155 160
- Pro Val Leu Ala Asp Lys Lys Tyr Pro Tyr Phe Phe Arg Thr Val 165 170 175
- Pro Ser Asp Asn Ala Val Asn Pro Ala Ile Leu Lys Leu Leu Lys His 180 185 190
- Tyr Gln Trp Lys Arg Val Gly Thr Leu Thr Gln Asp Val Gln Arg Phe
 195 200 205
- Ser Glu Val Arg Asn Asp, Leu Thr Gly Val Leu Tyr Gly Glu Asp Ile 210 215 220
- Glu Ile Ser Asp Thr Glu Ser Phe Ser Asn Asp Pro Cys Thr Ser Val 225 230 235 240
- Lys Lys Leu Lys Gly Asn Asp Val Arg Ile Ile Leu Gly Gln Phe Asp 245 250 255
- Gln Asn Met Ala Ala Lys Val Phe Cys Cys Ala Tyr Glu Glu Asn Met 260 265 270
- Tyr Gly Ser Lys Tyr Gln Trp Ile Ile Pro Gly Trp Tyr Glu Pro Ser 275 280 285
- Trp Trp Glu Gln Val His Thr Glu Ala Asn Ser Ser Arg Cys Leu Arg 290 295 300

Lys Asn. Leu Leu Ala Ala Met Glu Gly Tyr Ile Gly Val Asp Phe Glu Pro Leu Ser Ser Lys Gln Ile Lys Thr Ile Ser Gly Lys Thr Pro Gln 325 Gln Tyr Glu Arg Glu Tyr Asn Asn Lys Arg Ser Gly Val Gly Pro Ser Lys Phe His Gly Tyr Ala Tyr Asp Gly Ile Trp Val Ile Ala Lys Thr 360 Leu Gln Arg Ala Met Glu Thr Leu His Ala Ser Ser Arg His Gln Arg 370 375 380 Ile Gln Asp Phe Asn Tyr Thr Asp His Thr Leu Gly Arg Ile Ile Leu . 390 Asn Ala Met Asn Glu Thr Asn Phe Phe Gly Val Thr Gly Gln Val Val 405 Phe Arg Asn Gly Glu Arg Met Gly Thr Ile Lys Phe Thr Gln Phe Gln 420 425 Asp Ser Arg Glu Val Lys Val Gly Glu Tyr Asn Ala Val Ala Asp Thr 435 440 Leu Glu Ile Ile Asn Asp Thr Ile Arg Phe Gln Gly Ser Glu Pro Pro 455 Lys Asp Lys Thr Ile Ile Leu Glu Gln Leu Arg Lys Ile Ser Leu Pro 465 475 470 Leu Tyr Ser Ile Leu Ser Ala Leu Thr Ile Leu Gly Met Ile Met Ala 485 490 495 Ser Ala Phe Leu Phe Phe Asn Ile Lys Asn Arg Asn Gln Lys Leu Ile 500 505 Lys Met Ser Ser Pro Tyr Met Asn Asn Leu Ile Ile Leu Gly Gly Met 515 520 Leu Ser Tyr Ala Ser Ile Phe Leu Phe Gly Leu Asp Gly Ser Phe Val

Ser Glu Lys Thr Phe Glu Thr Leu Cys Thr Val Arg Thr Trp Ile Leu Thr Val Gly Tyr Thr Thr Ala Phe Gly Ala Met Phe Ala Lys Thr Trp Arg Val His Ala Ile Phe Lys Asn Val Lys Met Lys Lys Lys Ile Ile Lys Asp Gln Lys Leu Leu Val Ile Val Gly Met Leu Leu Ile Asp Leu Cys Ile Leu Ile Cys Trp Gln Ala Val Asp Pro Leu Arg Arg Thr Val Glu Lys Tyr Ser Met Glu Pro Asp Pro Ala Gly Arg Asp Ile Ser Ile Arg Pro Leu Leu Glu His Cys Glu Asn Thr His Met Thr Ile Trp Leu Gly Ile Val Tyr Ala Tyr Lys Gly Leu Leu Met Leu Phe Gly Cys Phe Leu Ala Trp Glu Thr Arg Asn Val Ser Ile Pro Ala Leu Asn Asp Ser Lys Tyr Ile Gly Met Ser Val Tyr Asn Val Gly Ile Met Cys Ile • 695 Ile Gly Ala Ala Val Ser Phe Leu Thr Arg Asp Gln Pro Asn Val Gln Phe Cys Ile Val Ala Leu Val Ile Ile Phe Cys Ser Thr Ile Thr Leu Cys Leu Val Phe Val Pro Lys Leu Ile Thr Leu Arg Thr Asn Pro Asp

Ala Ala Thr Gln Asn Arg Arg Phe Gln Phe Thr Gln Asn Gln Lys Lys
755 760 765

Glu Asp Ser Lys Thr Ser Thr Ser Val Thr Ser Val Asn Gln Ala Ser 770 775 780

Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met 785 790 795 800

Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu 805 810 815

Gln Asp Thr Pro Glu Lys Thr Thr Tyr Ile Lys Gln Asn His Tyr Gln 820 825 830

Glu Leu Asn Asp Ile Leu Asn Leu Gly Asn Phe Thr Glu Ser Thr Asp 835 840 845

Gly Gly Lys Ala Ile Leu Lys Asn His Leu Asp Gln Asn Pro Gln Leu 850 855 860

Gln Trp Asn Thr Thr Glu Pro Ser Arg Thr Cys Lys Asp Pro Ile Glu 865 870 875 880

Asp Ile Asn Ser Pro Glu His Ile Gln Arg Arg Leu Ser Leu Gln Leu 885 890 895

Pro Ile Leu His His Ala Tyr Leu Pro Ser Ile Gly Gly Val Asp Ala 900 905 910

Ser Cys Val Ser Pro Cys Val Ser Pro Thr Ala Ser Pro Arg His Arg 915 920 925

His Val Pro Pro Ser Phe Arg Val Met Val Ser Gly Leu 930 935 940